

- 38 -

Abstract

Hybrid and novel polyketide synthases and polyketides are produced by use of a multiple vector system. The combinatorial possibilities offered by placing the various catalytic activities of PKS systems on separate vectors permits the construction of improved libraries of PKS and polyketides. In addition, polyketides can be produced in hosts that ordinarily do not produce polyketides by supplying, along with an expression system for the desired PKS, an expression system for holo ACP synthase.

5